

Curriculum Vitae of Brian George Tice

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Education

Rutgers, The State University of New Jersey - Piscataway, NJ	2008-2013
Ph.D. in Experimental Nuclear Physics (January 2014)	
Adviser: Prof. Ronald D. Ransome	
Thesis: "Measurement of Nuclear Dependence in Inclusive Charged-Current Neutrino Scattering"	
FERMILAB-THESIS-2014-01	
Carnegie Mellon University - Pittsburgh, PA	2005-2008
B.S. Physics (May 2008)	
University Academic Honors and Mellon College of Science Research Honors	
Completed within Science and Humanities Scholars program	
Received Senior Leadership Award	

Academic Positions

Argonne National Laboratory	Argonne, IL
Postdoctoral Appointee , Physics Division, Medium Energy Group	Nov '13-present
Rutgers, The State University of New Jersey	Piscataway, NJ
Graduate Research Assistant , Department of Nuclear Physics	Aug '08-Nov '13
Carnegie Mellon University	Pittsburgh, PA
Undergraduate Researcher	Aug '06-Dec '07

Teaching Experience

Private Physics Tutor – New Brunswick, NJ area	'09 - '10
Teaching Assistant (Physics II) - Rutgers, The State University of New Jersey	Summer '09
Volunteer Math Tutor - Urban League of Pittsburgh Charter Elementary School	07 & '08
Teaching Assistant Assistant (Physics I) - Carnegie Mellon University	Spring '06

Conference Participation

Invited Talks

October 2014 - Waikaloa, HI - 4th Joint Meeting of the APS DNP and the Physical Society of Japan
"Nuclear Effects in Neutrino Scattering at MINERvA"

March 2014 - La Thuile, Italy - Recontres de Moriond XLIX - QCD and High Energy Interactions
"Nuclear Target Cross Section Ratios at MINERvA"
Proceedings: arXiv:1405.3960 [hep-ex]

October 2013 – Batavia, IL – Fermilab Joint Experimental-Theoretical Seminar
"Inclusive Neutrino Cross Section Ratios on Different Nuclei at MINERvA"

April 2013 - Denver, CO - 5th Workshop of the APS Topical Group on Hadronic Physics
“MINERvA: Using Neutrinos to Study Nucleon Structure”

June 2012 – Marciana Marina, Elba, Italy – Electron Nucleus Scattering Workshop XII
“The MINERvA Experiment”

March 2011 – Dehradun, India – NuINT, 7th Workshop on Neutrino-Nucleus Interactions in the Few-GeV Region
“Nuclear Physics with MINERvA”
Proceedings: AIP Conf. Proc. 1405 (2011) 198-203

Contributed Talks

October 2012 – Newport Beach, California – Fall Meeting of the APS DNP
“Charged-Current Inclusive Scattering with MINERvA”

October 2009 – Waikoloa, HI - 3rd Joint Meeting of the APS DNP and the Physical Society of Japan
“Neutrino Quasi-Elastic Scattering Measured with MINERvA”

Posters

June 2012 - Batavia, IL - Fermilab Users’ Meeting Poster Session
also in Kyoto, Japan - Neutrino 2012 - presented by J.G. Morfin
“Inclusive Neutrino Cross Section Measurements at MINERvA”

November 2011 - Rockville, MD - Intensity Frontier Workshop
“Nuclear Physics with MINERvA”

June 2011 - Batavia, IL - Fermilab Users’ Meeting Poster Session
“Nuclear Physics with MINERvA”

Refereed Journal Publications

“Measurement of Coherent Production of π^\pm in Neutrino and Anti-Neutrino Beams on Carbon from E_ν of 1.5 to 20 GeV”

A. Higuera, A. Mislivec, et al. (MINERvA Collaboration)
Submitted to Phys. Rev. Lett.
arXiv:1409:3835 [hep-ex]

“Charged Pion Production in ν_μ Interactions on Hydrocarbon at $\langle E_\nu \rangle = 4$ GeV”

B. Eberly et al. (MINERvA Collaboration)
arXiv:1406:6415 [hep-ex]

★ “Measurement of Ratios of Charged-Current Cross Sections on C, Fe, and Pb to CH at Neutrino Energies 2-20 GeV”

B.G. Tice, M. Datta, J. Mousseau, et al. (MINERvA Collaboration)
Phys. Rev. Lett. 112, 231801 (2014)
arXiv:1403:2103 [hep-ex]

“Design, Calibration, and Performance of the MINERvA Detector”

L. Aliaga et al. (MINERvA Collaboration)
Nucl. Instrum. Meth. A743 (2014) 130-159
arXiv:1035.5199 [physics.ins-det]

**“Measurement of Muon Neutrino Quasi-Elastic Scattering
on a Hydrocarbon Target at $E_\nu \sim 3.5\text{GeV}$ ”**

G.A. Fiorentini, D.W. Schmitz, P.A. Rodrigues, et al. (MINERvA Collaboration)
Phys. Rev. Lett 111 (2013) 022502
arXiv:1305.2243 [hep-ex]

**“Measurement of Muon Antineutrino Quasi-Elastic Scattering
on a Hydrocarbon Target at $E_\nu \sim 3.5\text{GeV}$ ”**

L. Fields, J. Chvojka, et al. (MINERvA Collaboration)
Phys. Rev. Lett 111 (2013) 022501
arXiv:1305.2245 [hep-ex]

“The MINERvA Data Acquisition System and Infrastructure”

G.N. Perdue et al. (MINERvA Collaboration)
Nucl. Instrum. Meth. A694 (2012) 179-192
arXiv:1209.1120 [physics.ins-det]

“Demonstration of Communication Using Neutrinos”

D.D. Stancil et al. (MINERvA Collaboration)
Mod. Phys. Lett. A27 (2012) 1250077
arXiv:1203.2847 [hep-ex]

“Arachne – A web-based event viewer for MINERvA”

N. Tagg et al. (MINERvA Collaboration)
Nucl. Instrum. Meth. 676 (2012) 44-49
arXiv:1111.5315 [hep-ex]

Professional Activities

2013-present	Collaborator, SeaQuest - Fermilab E906
June 2013	Fermilab co-presenter at NUFO User Science Exhibition at Capital Hill
2012-present	Member of Fermilab Art and Lectures Committee
2012-present	Volunteer at Fermilab's Lederman Science Center
June 2012	Fermilab New Perspectives conference organizer
June 2012	45 th Fermilab Users' Meeting poster session organizer
March 2012	Fermilab Co-representative at joint UEC-GSA-SLUO visit to Capital Hill
2011-2012	Served as elected officer of Graduate Student Association of Fermilab
June 2010	USA representative to 60 th Lindau Nobel Laureates Meeting
2008-2014	Collaborator, Main INjector Experiment for ν A (MINERvA) - Fermilab E938